

Legends:

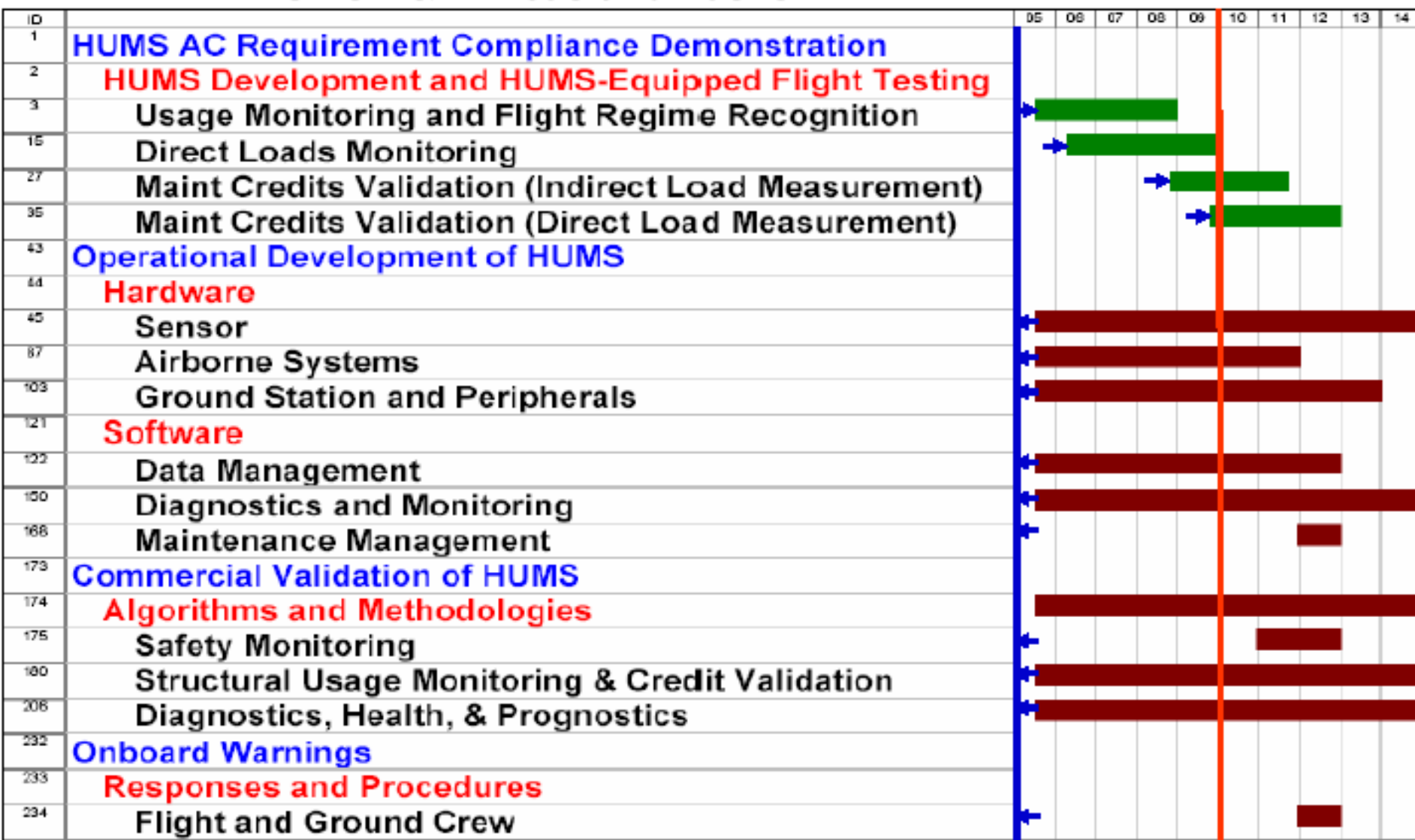
Technology Demonstration

Technology Development
And/or Validation

HUMS R&D Roadmap

HUMS R&D Areas and Tasks

Short

Long
Term

HUMS AC Requirement Compliance Demonstration

HUMS R&D Areas and Tasks

Short

Long
Term

ID		05	06	07	08	09	10	11	12	13	14
1	HUMS Development and Equipped-Flight Testing										
2	Usage Monitoring and Flight Regime Recognition										
14	Direct Loads Monitoring										
26	Maint Credits Validation (Indirect Load Measurement)										
34	Maint Credits Validation (Direct Load Measurement)										

Priority:

High

Medium

Low

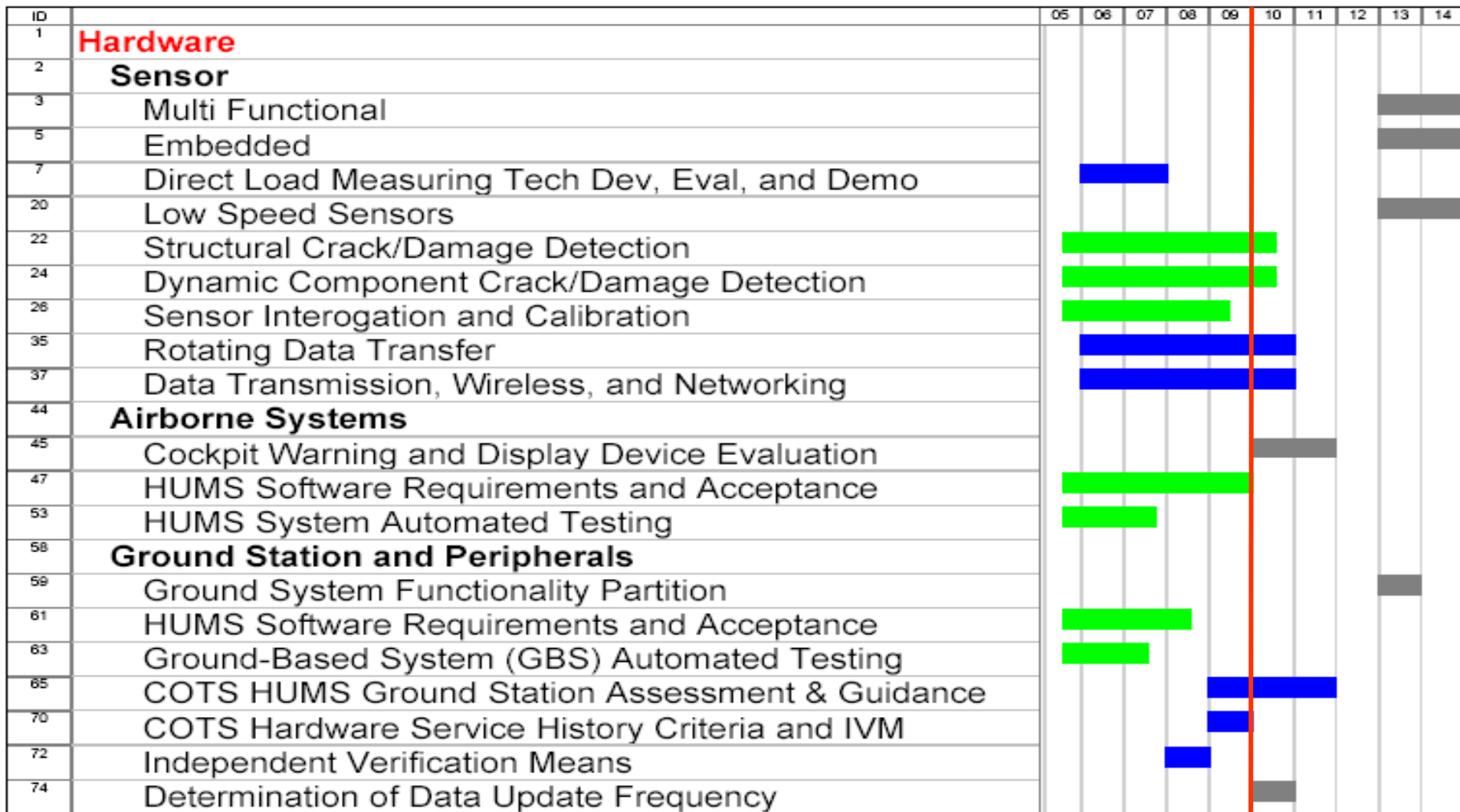


Development of HUMS Operational Requirements - Hardware -

HUMS R&D Areas and Tasks

Short

Long
Term

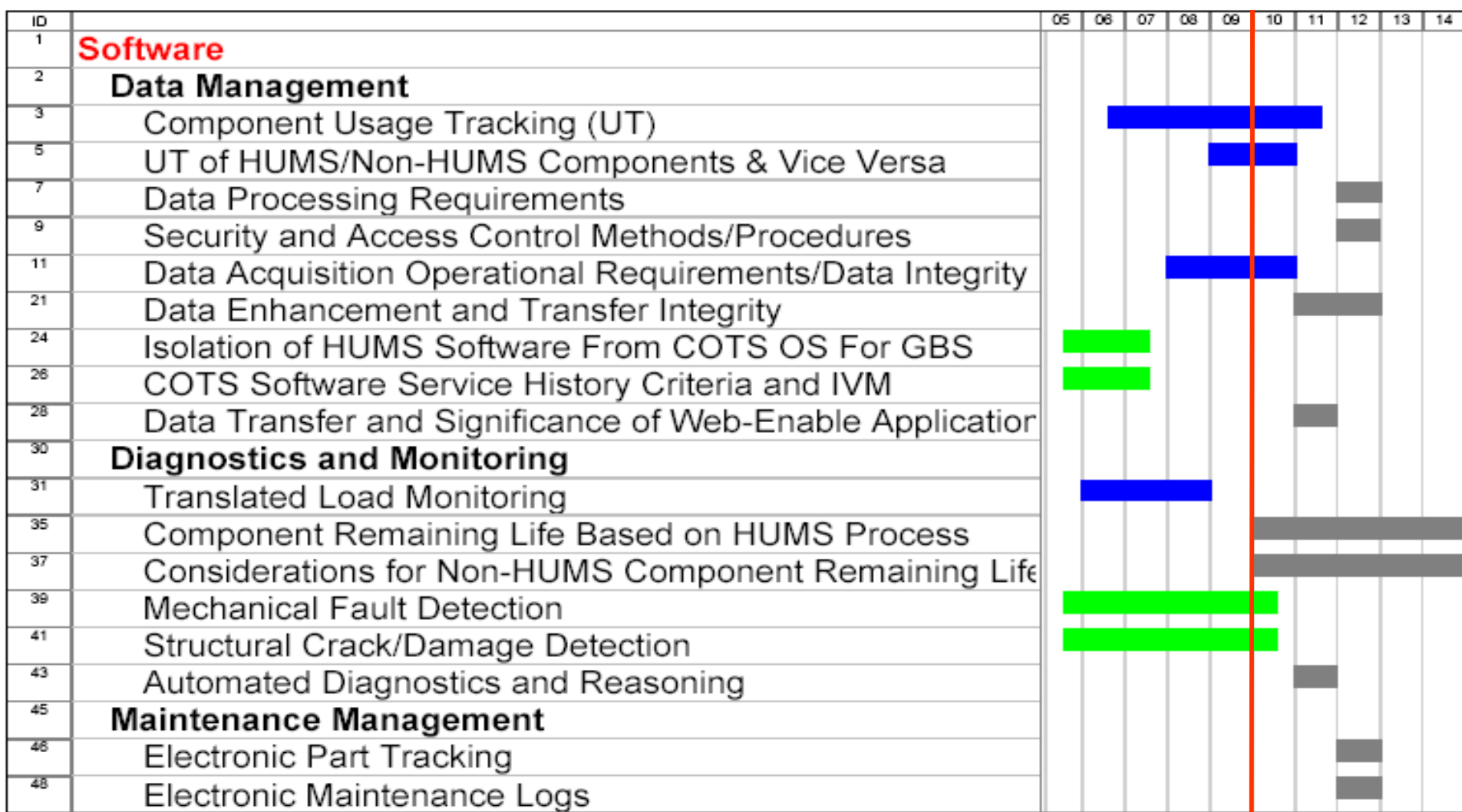


Development of HUMS Operational Requirements - Software -

HUMS R&D Areas and Tasks

Short

Long
Term



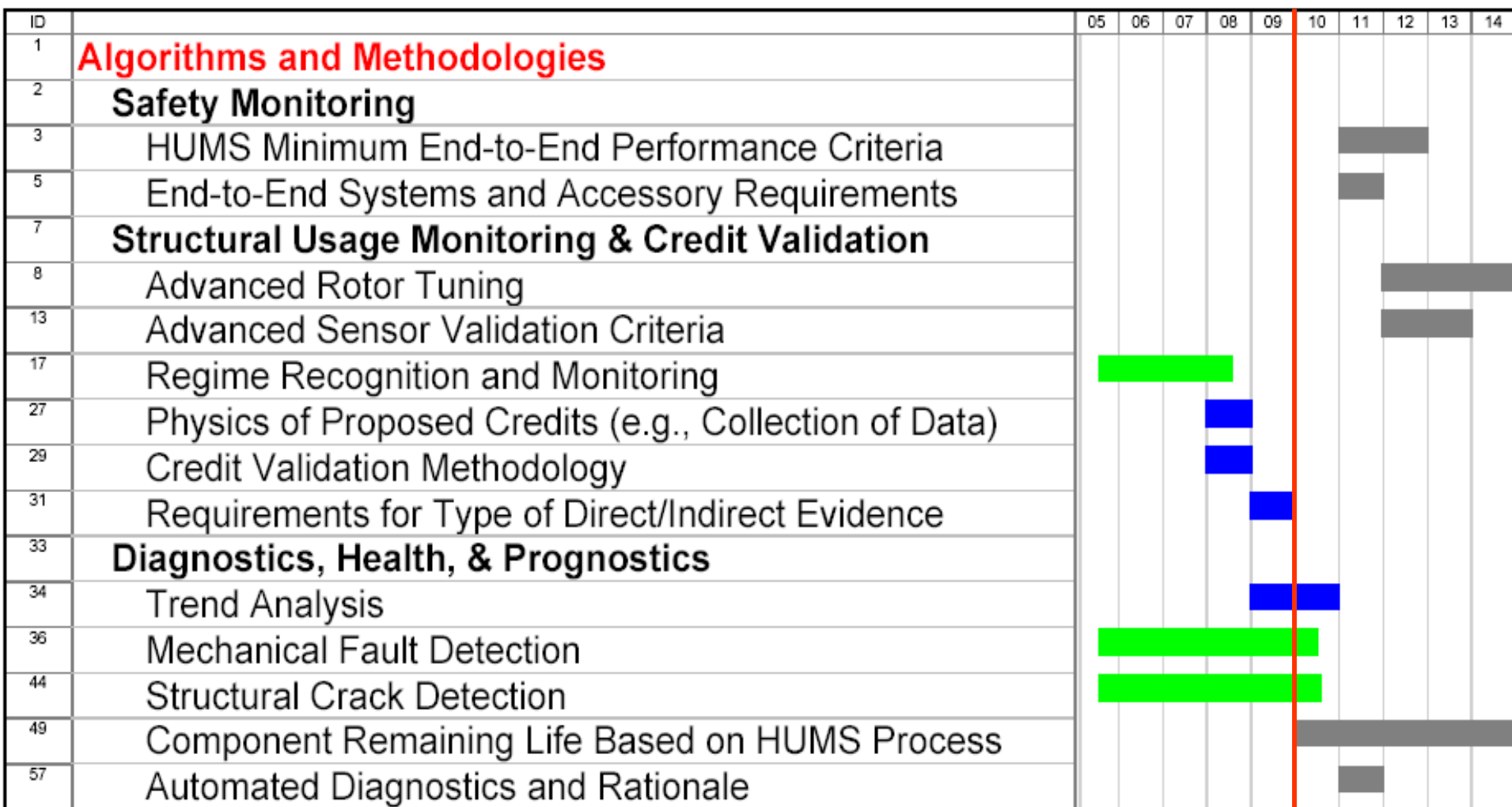
Commercial HUMS Validation

- Algorithm and Methodologies -

HUMS R&D Areas and Tasks

Short

Long
Term



Onboard Warnings

- Responses and Procedures -

HUMS R&D Areas and Tasks

Short Long Term

ID		05	06	07	08	09	10	11	12	13	14
1	Responses and Procedures										
2	Flight and Ground Crew										
3	Impact of Displayed HUMS Information on Pilot Workload										
5	Pilot Reaction on Warnings										
7	Procedures for Responding to Warnings										